

THE SKIDOO PROBLEM

A coin collector had an accumulation of pennies. He told his son he would make him a present of the entire lot if he would put them in boxes, the same number in each box.

There was an odd number of pennies, so that if he put an equal number in each of two boxes there would be one penny left over; in a like manner he figured on 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22 boxes, but in every case if he put an equal number in each box there would be one (only one) penny left over. The son gave it up and told his father he thought it impossible to perform the feat.

His father replied: "SKIDOO—23 for you."

The son then put the entire lot of pennies in 23 boxes, the same number in each box. How many pennies were there?

The Herald's great SKIDOO PROBLEM offers the finest kind of opportunity for everybody, old and young, to show their skill at figuring, and to win a prize.

This Skidoo Problem that The Herald has secured for its exclusive use in Salt Lake is the cleverest problem conceived in many years. "Skidoo" and "23" are in the air, and here they are at last put to practical use.

Carefully digest the problem, which is printed herewith, put on your thinking cap, get out your pencil and paper (unless you are unusually good in mental arithmetic) and figure out what you believe to be the correct solution and then let The Herald hear from you.

This is no trick problem. It is a plain proposition in arithmetic. Just simple arithmetic is needed to solve it—no algebra or higher mathematics. It is purely a contest of skill.

ONE THOUSAND BRIGHT, NEW PENNIES will be given to the person who sends in the most skillfully worded correct solution of the problem.

TWENTY-THREE BRIGHT, NEW PENNIES will be given to the twenty-three other contestants whose solutions are considered by the judges to be the next most ingenious.

The Skidoo editor has had a busy week.

Ever since the puzzling 23 problem was published the mail has been burdened with answers. Ely, Nevada; Pocatello, Idaho; Payson, Nephi, Bingham, Eureka, Ogden, Utah; French, Wyoming; and even Memphis, Tennessee, are among the places where the mathematicians have been busy.

Under our contract with the originator we cannot tell the correct answer until DECEMBER 23rd.

But all answers must be in by December 15th. There is still a chance for you to get a little money. Here are a few of the answers.

HERE'S ONE BY TELEGRAPH:

RC RO S 23-Paid
Spencer Ida Nov 12th 06
The Herald,
Salt Lake, Ut.
Let each letter in Skidoo twenty three for you represent
a box put one penny in each box answer is twenty three pennies.
B. S. Rowe, 1237p

How is This?

Skidoo Editor, Herald—I am enclosing answer to your Skidoo problem in this morning's Herald. My answer is 1,124,000,727,777,887,689,691, and don't forget the one at the end. This number was obtained by multiplying all the factors from 2 to 22 inclusive, together and adding one. This total, less one, will therefore be divisible by every number from 2 to 22 without a remainder, and with this one added to the total, there is a remainder of 1 and only 1, when this total is divided by each of the factors. This was one of the conditions of the problem. This number is also divisible without a remainder by 23, as can easily be proven by dividing it by that number. This is the other condition of the problem. Having found a number that fulfills all the requirements of the proposition, I hereby submit it to you as a correct answer. Any odd prime number can be divided into the product of all its preceding numbers with the addition of 1, as can be proved by taking 7, for instance. The product of all the numbers from 2 to 6 inclusive is 720, adding one gives us 721, which is divisible by 7. This also holds good in 5, 11, 13, 17, 19, 23, etc., and it was from this supposition that I worked out my answer. If you can prove that this is not a correct answer to your Skidoo puzzle, I will donate a lot in Westminster Heights, valued at \$200, to the Democratic party, or any other charitable institution in Utah. WALTER AIKEN.

Thinks 713 is Right.

Editor Salt Lake Herald—Enclosed you will find the answer to your Skidoo problem in Sunday's paper. I first found the least common multiple from 2 to 22, and in multiplying the results together found the number of pennies in one box. Now add the one penny left over and multiply those results by Skidoo, or 23, gives the number of pennies in all. MISS ALTA DAWSON.

Also 713.

Skidoo Editor—Find the least common multiple of any number under 23. By multiplying 23 by 31, which is the lowest number that 23 can be multiplied by to give such a multiple, we get 713. Therefore there were 713 pennies, 21 in each box. Respectfully submitted, ALMA HARPER.

529.

Editor Herald—I in answer to the Skidoo problem. I wish to send the following answer. As the collector had a certain number of pennies which could be put equally in not less than 23 boxes, and as 23 seems to be all the go at present, the boy must have put 23 equals 529. Therefore, 22 times 23 equals 529, the number of pennies the collector had. MRS. S. F. KERSHAW.

165 South Ninth East street.

A Big One.

The Skidoo Editor—6,652,996,561 pennies; 23 boxes with 285,196,367 in each box. First find the least common multiple of the numbers from 2 to 22 inclusive, which is 465,553,120. If an equal number of these pennies be placed in 23 boxes, there will be 7 pennies remaining. Therefore, the smallest number of that is exactly divisible by 23, and leaves 1 penny remaining, is divided by any of the numbers from 2 to 22 inclusive is 465,553,120 added

STORY OF BIRTHS, DEATHS AND MARRIAGES AS TOLD BY THE RECORDS OF TEN YEARS

According to the vital statistics on file in the office of the city board of health, Salt Lake City is a healthful place in which to live. There have been, in the last ten years, nearly twice as many births as deaths, and there have been nearly as many marriage licenses issued as there were birth reports filed.

Record of Marriage Licenses.

In 1895 there were 502 marriage licenses issued. Up to Nov. 1, 1906, there were 1,529 marriage licenses issued, or at the rate of 1,824 for the year. This is nearly four times as many as those issued a decade ago, and is a fair estimate of the growth of population since that time.

The greatest number of deaths recorded

in any year since 1895 was in 1904, when there were 941 death certificates filed with the board. Of this number, 527 were males and 414 females. The greatest number of births during any year was also in 1904, when there were 1,737 births. Of these there were 922 males and 815 females.

Grim Reaper's Harvest Time.

The greatest number of deaths in any month was during May, 1905, when 114 residents of the city died. The next highest month was March, 1904, when 112 died. The third high month was October, 1902, when 79 died.

For births, March, 1904, leads the list, with 191 to its credit. October, 1906, runs it a close second with 189.

The following table shows the statistics for the period of ten years, with the reports for the first ten months of the present year included:

Deaths by Years.			Births			Licenses		
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
1895.....	285	354	541	514	1,055	292	265	557
1896.....	290	356	566	528	1,094	765	755	1,520
1897.....	297	360	581	580	1,161	828	821	1,649
1898.....	301	376	597	557	1,154	851	851	1,702
1899.....	336	386	622	554	1,176	900	900	1,800
1900.....	348	399	648	573	1,221	1,037	1,037	2,074
1901.....	369	406	629	587	1,216	1,180	1,180	2,360
1902.....	462	387	849	627	1,274	1,294	1,294	2,588
1903.....	386	359	745	804	1,549	1,427	1,427	2,854
1904.....	527	414	941	922	1,863	1,512	1,512	3,024
1905.....	491	356	847	824	1,671	1,555	1,555	3,110
1906.....	426	332	758	779	1,537	1,520	1,520	3,040
Totals.....	4,432	3,914	8,346	7,950	16,296	13,481	13,481	26,962

* To November 1.

to itself a sufficient number of times to make this extra 7 pennies equal to 23. By multiplying 23 by 31, which is the lowest number that 23 can be multiplied by to give such a multiple, we get 713. Therefore there were 713 pennies, 21 in each box. Respectfully submitted, ALMA HARPER.

Postoffice, City.

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SOME THANKSGIVING SUGGESTIONS



It is the Dining Room that comes in for improvement before the Holidays, for there is to be the scene of all the festive events of the season. We anticipated your wants months ago, and the objects of our purchase have just been opened up and placed on display for the choosing of those contemplating the beautifying of their Dining Rooms before Thanksgiving. Call and see the exhibits this week.



The Thanksgiving Table

is essentially the central figure of the room's furnishings, and to be impressive must possess beauty with its virtues of permanency. A choice of our great stock, just replenished with a carload of new ones, will prove the pleasing choice of this year's best showing.

We are particularly strong on the Pedestal designs in individuals or those comprised in dining room sets. GOOD EXTENSION TABLES, \$5.25 AND UP.

China Closets

Besides being one of the most showy articles of Dining Room furniture, a china closet is also one of the most useful. It offers protection to all the dainty pieces of china, silver or cut glass ware, and a convenient place to keep them. We can give you one to match the balance of the Dining Room Furniture.

Dainty Buffets

lend beauty and distinction to Dining Room appointments. One selected from our worthy stock will enhance the appearance of your Thanksgiving Dining Room.

Sprightly Side Boards

Our Sideboard line has been overstocked with many new designs for this occasion, and offers better selection than ever before.

From \$15 Upward

you may pick a Sideboard to your liking, and be assured of all the Sideboard quality possible at the price you desire to pay.

Now is the time to select it, for Thanksgiving is little over a week away. Then the stock is at its best right now, and first choice will be best choice.

Dining Chair Special

Highly Polished Oak, cane, box seat, conventional designs. Thanksgiving Price—

\$1.85

Other Dining Room chairs from 75c up.

The Greenwald Furniture Co.
33-35-37 WEST THIRD SOUTH

Dining Chair Special

Quarter-sawn Oak, box seat, leather upholstered. A very handsome style. Thanksgiving Price—

\$2.70

Splendid showing of Box Seat chairs in sets.

Wholesale Department Phones 876, 877.

Retail Department Phones 964, 965, 966.

W. S. HENDERSON

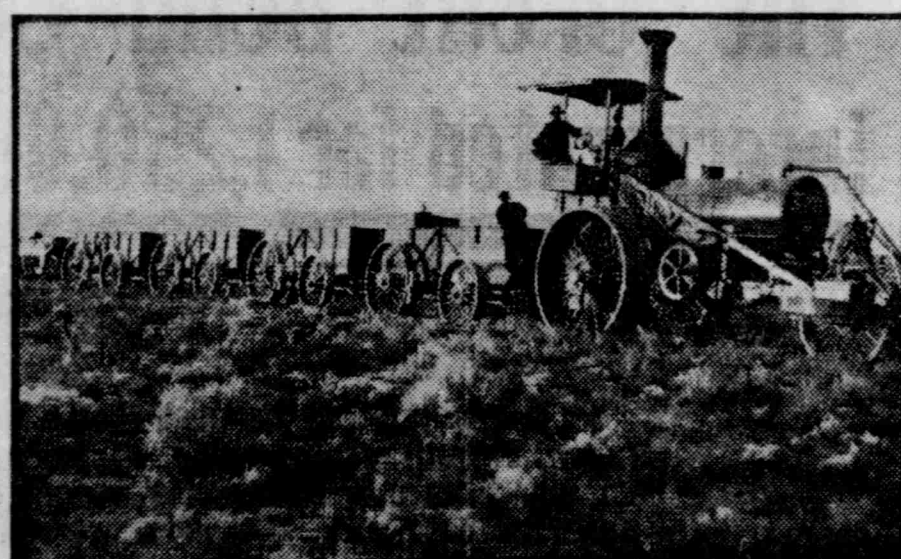
Wholesale Grocer.

CORNER SECOND SOUTH AND THIRD WEST STS.

Retail Department, 267-269 Main St

SALT LAKE CITY, UTAH.

The Best Manufacturing Co.



The cut above represents the Dubois Transportation Company's train. This train is now being operated between Dubois and Gilmore, Idaho, a distance of 85 miles, and has a hauling capacity of 50 tons. The train is making two trips a week and travels 340 miles in that time over a desert road. For information, write Best Manufacturing Co., San Leandro, Cal., or J. H. Davis, 201, Herald Bldg., Salt Lake City.

NEW PASTOR WILL SPEAK.

Rev. S. A. Hayworth to Address

Men's Meeting at Y. M. C. A.

Rev. S. A. Hayworth, the new pastor of the East Side Baptist church, will address the men's meeting at the Y. M. C. A. this afternoon. "Plus Elements of Character" is the topic of the address.

This is Mr. Hayworth's first appearance at the Y. M. C. A. auditorium and a good attendance is expected.

As is the custom the Y. M. C. A. library and lobby will be open today, after 1 o'clock, to all men of the city, whether members of the association or not. A sacred concert will be given in the lobby at 4:30, followed by the address in the auditorium at 5 o'clock.

KILLED BY SOLDIER.

Poltava, Russia, Nov. 17.—General Polkownikoff, commander of the garrison here, was shot dead tonight, and a soldier, who was passing at the time, was killed by unknown persons.

BOYS ARE AHEAD.

Girls Are Two Behind in Race for

Supremacy This Week.

There were two more boys born during the last week than girls, there having been twelve boys and fourteen girls born, according to the weekly report of the city board of health. There were twenty-four deaths, sixteen being males and eight females. Three bodies were shipped here for burial.

Eight new cases of contagious or infectious diseases were reported to the board. There were two each of scarlet fever and diphtheria, three of typhoid and one of chicken pox. Five cases of scarlet fever and eight of diphtheria remain in quarantine.

EXPERT KODAK FINISHING.

Harry Shipley, Commercial Photographer, 161 Main street. Get my new price list.

Where Men Are Cured for \$12.50

CONSULTATION FREE!



Our Fee Need Not Be Paid Unless Cured.

We cure Nervous Debility, Kidney, Bladder and Chronic Diseases of Men to stay cured. A sure cure for Varicocele and Hydrocele in shortest possible time. Our treatment for Blood Poison, Sores, Ulcers, Chronic and Nervous Troubles cures quickly and permanently.

EXAMINATION ABSOLUTELY FREE.

YOU DO NOT PAY UNTIL YOU ARE SATISFIED. Call or write. Our twenty years' continuous practice and experience in the treatment of thousands of cases is a guarantee to any person that their case will be absolutely safe in our hands. A true expert who devotes all his time to a few ailments will effect cures after others fail. If your case is incurable we will frankly tell you so.

Call and We Will Explain Our Methods Of Treatment.

CONSULTATION FREE AND INVITED.—Our reputation and work is not of a mushroom growth. We have been curing men for twenty years.

HOME TREATMENT.

If you are in or near the city you should apply for treatment in person, but if you live too far away for this, write us a full and unreserved history of your case. You will receive as careful, conscientious and painstaking attention as if you came to our office daily. As men in different parts of Canada and Mexico, as well as all over the United States, are being cured by our system of Home Treatment, we feel fully justified in claiming that it is the most perfect and successful system devised.

Write for Free Diagnosis Chart and 100-page Book on Diseases of Men. Hours: 9 a. m. to 5 p. m.; evenings, 7 to 9:30; Sundays, 9 a. m. to 12 noon.

Salt Lake Medical Institute,
159 1/2 SOUTH MAIN STREET, - - - SALT LAKE CITY, UTAH.

IF IT HAPPENS IT'S IN THE HERALD.